

# MOD6610

## Professional ATSC-T Modulator

DIBSYS



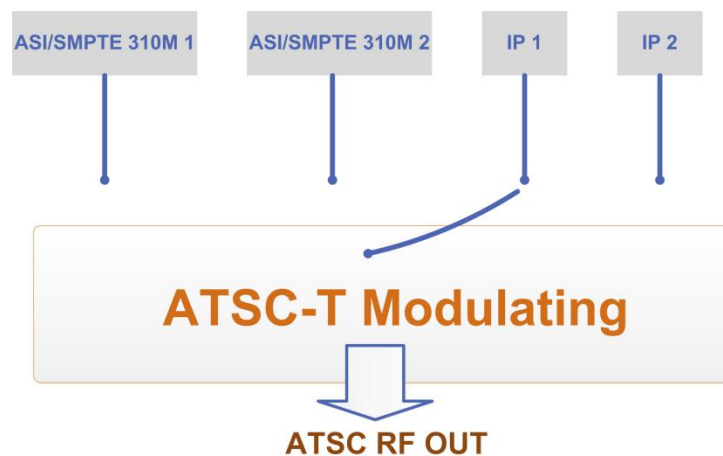
MOD6610, ATSC-T Digital Modulator offers a combination of features and reliability supporting DVB-ASI and SMPTE-310 input. It complies with ATSC A/53 standard for 8-VSB (ATSC) modulation for terrestrial HDTV broadcasting and is applicable for HDTV and SDTV broadcasting. It supports DVB-ASI and SMPTE-310M input, and can output RF signals with the range between 50~860MHz.

ATSC-T modulator supports the coding and modulating mode under ATSC-T A/53 standard. It also supports adaptive non-linear and linear digital pre-distortion (DPD). Additionally, the system of this device can be on line controlled and upgraded through network, which can be widely used as a DTV broadcast modulator, tester, or a head end of an RF distribution network.

### Features

- Full complying with ATSC A/53 standard
- Dual IP input ports, GE ports, over UDP/RTP
- Dual channel DVB-ASI/SMPTE-310M input, automatic switch-over and hot backup
- RF range: 50MHz~860MHz,1Hz stepping
- RS coding, data interleaving, Trellis coding
- Supports adaptive linear or non-linear digital pre-distortion (DPD)
- Adopts constant-temperature crystal oscillator, the frequency stability can be up to 0.1 PPM
- Excellent RF output performance: EVM, MER, SNR, shoulder level and etc
- Front panel and IP remote control
- Remote maintenance, monitoring and software upgrading
- NMS, Keyboard and LCD operation

### Principle chart



## TECHNICAL SPECIFICATIONS

### Input

Self-adapted 2 ASI/SMPTE 310M input  
2 ASI ports input, one for hot backup, BNC interface  
Dual IP input ports, one for hot backup  
over UDP/RTP, Unicast/Multicast, GE ports

### RF output

Port N Type, 50Ω impedance  
RF range 50~860Mhz, 1Hz stepping  
Output Level -20dbm ~ +6dbm, 0.1db stepping  
MER ≥ 40db  
Shoulder Level 60db

### Modulation

Standard ATSC A/53  
Constellation 8VSB  
Bandwidth 6 MHz  
FEC RS(208 188)+Trellis

### Non-linear DPD

over 10db ACPR improvement  
(normally)

### linear DPD

over 10db non-flatness adjustment  
(normally)

### Control

LCD/keyboard, NMS management  
Chinese & English operation display  
Software upgraded through network

### ENVIRONMENT

Power Supply AC 110V±10%, 50/60Hz; AC 220V±10%  
50/60Hz  
Consumption 25W  
Temperature 0 ~ 45°C ( operation), -20 ~ 80°C  
( storage)  
Dimensions 482mm × 455mm × 44.5mm  
Weight 6.0kg